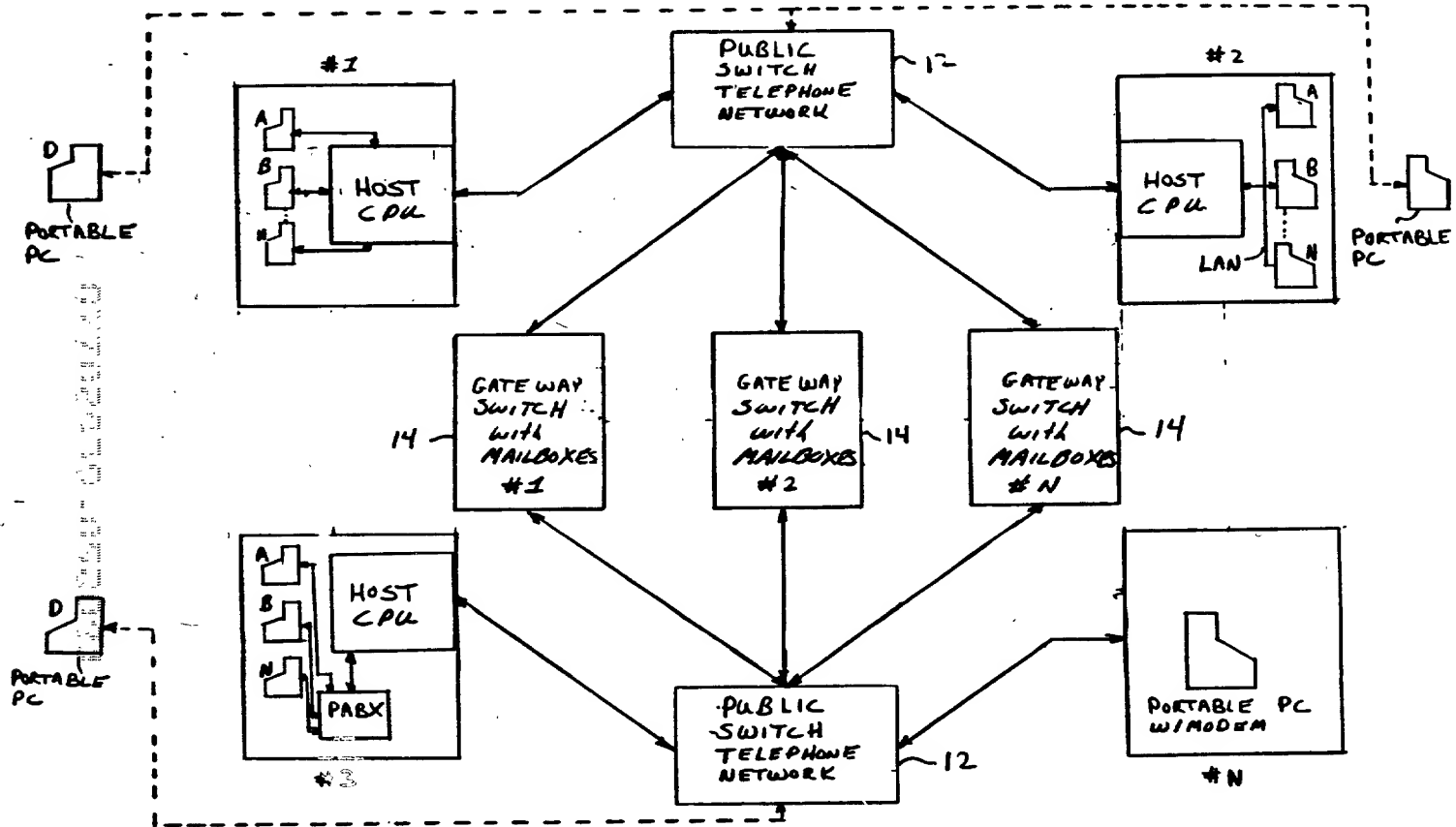
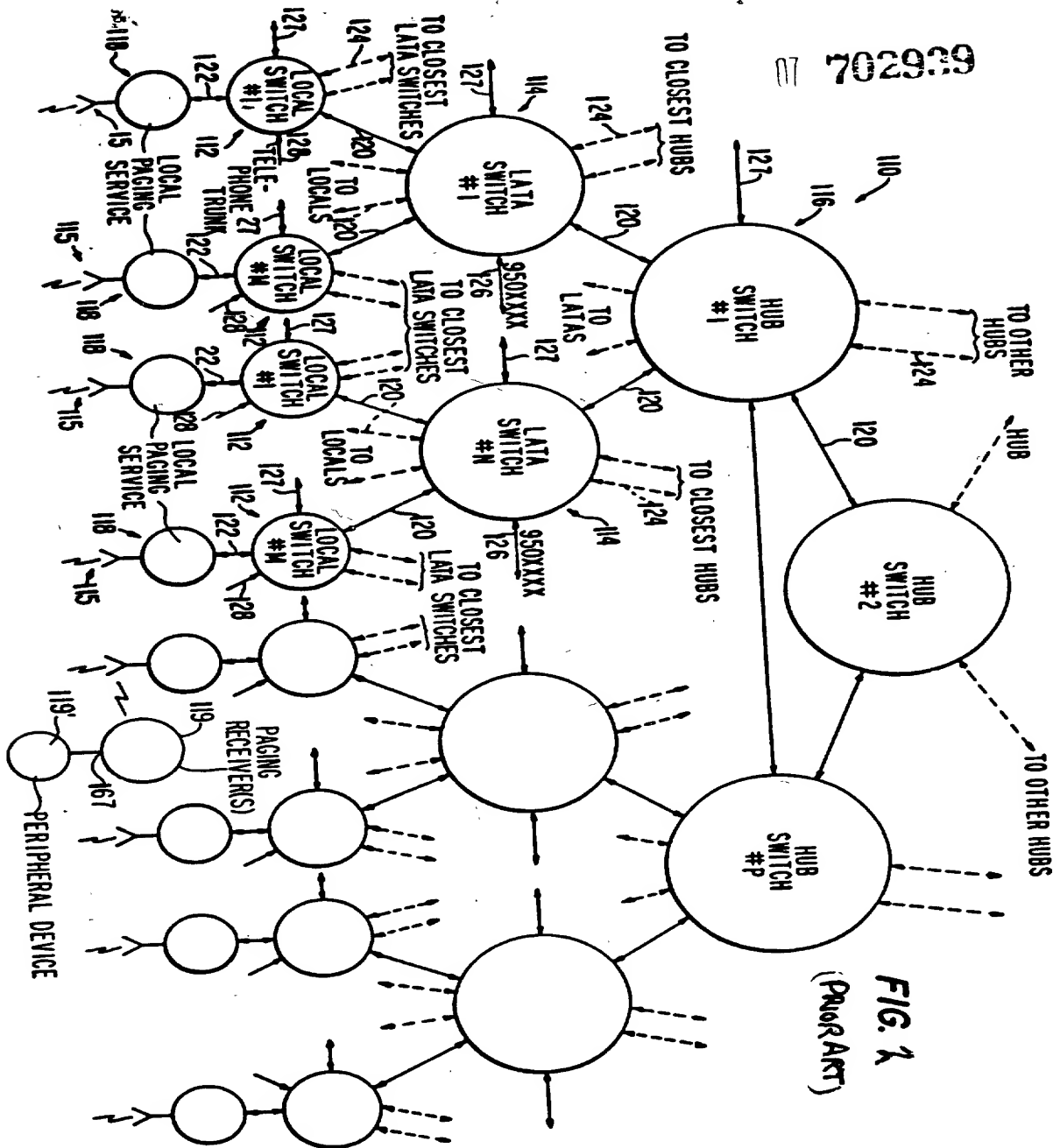


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Fig. 1  
(PRIOR ART)



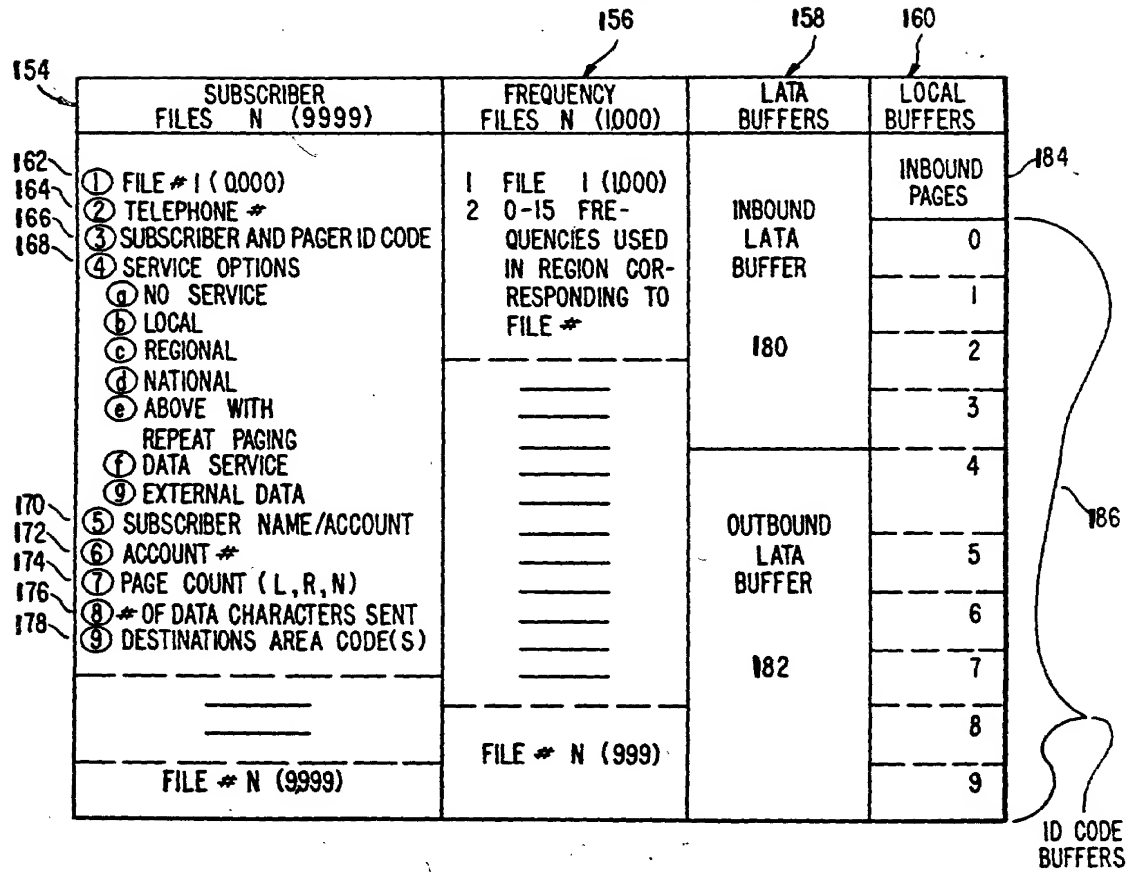
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FIG. 3  
(PRIOR ART)

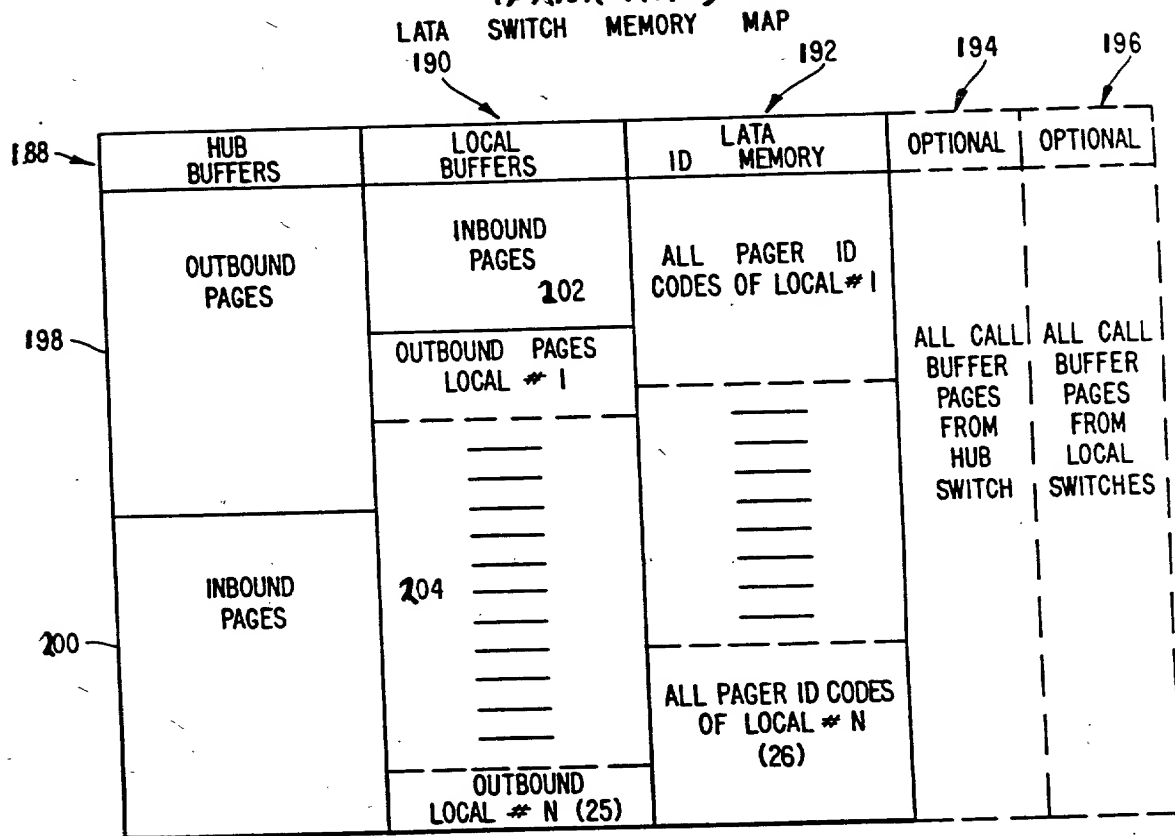
LOCAL SWITCH MEMORY MAP



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**FIG. 4**  
(PRIOR ART)

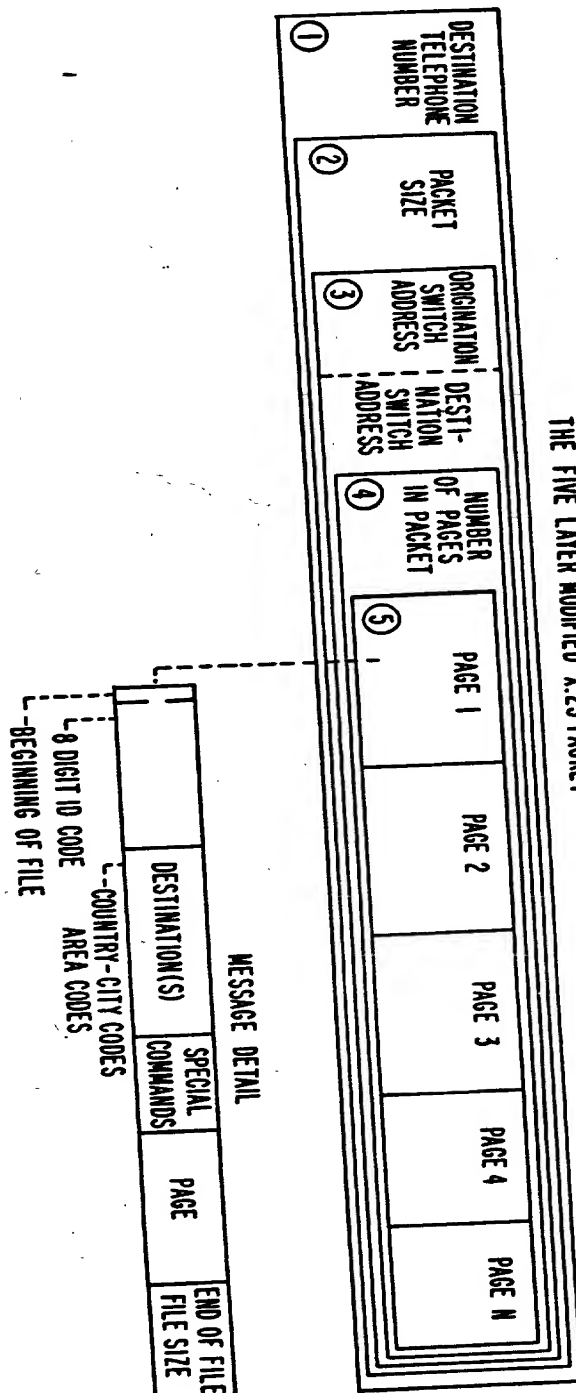


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**FIG. 5**  
(PRIOR ART)  
HUB SWITCH MEMORY MAP

HUB BUFFERS	LATA BUFFERS	LATA CODE TABLES N (100)	HUB ROUTING CODES N (1000)
INBOUND HUB # 1	INBOUND LATA # 1	LATA CODE # 1	ROUTING CODE 1,2,3,4,5,6 (312)
<div data-bbox="342 737 391 768">214</div> <div data-bbox="505 617 586 758"> <div data-bbox="570 617 586 638">_____</div> <div data-bbox="570 638 586 659">_____</div> <div data-bbox="570 659 586 680">_____</div> <div data-bbox="570 680 586 701">_____</div> <div data-bbox="570 701 586 722">_____</div> </div>	<div data-bbox="695 638 727 659">218</div> <div data-bbox="764 617 846 758"> <div data-bbox="764 617 781 638">_____</div> <div data-bbox="764 638 781 659">_____</div> <div data-bbox="764 659 781 680">_____</div> <div data-bbox="764 680 781 701">_____</div> <div data-bbox="764 701 781 722">_____</div> </div>	<div data-bbox="1105 596 1154 659">LATA CODE # 1</div> <div data-bbox="1105 659 1154 680">222</div>	<div data-bbox="1284 617 1365 638">_____</div> <div data-bbox="1284 638 1365 659">_____</div> <div data-bbox="1284 659 1365 680">_____</div> <div data-bbox="1284 680 1365 701">_____</div> <div data-bbox="1284 701 1365 722">_____</div>
INBOUND HUB # N (6)	INBOUND LATA # N (100)	<div data-bbox="1040 680 1122 701">_____</div> <div data-bbox="1040 701 1122 722">_____</div> <div data-bbox="1040 722 1122 743">_____</div> <div data-bbox="1040 743 1122 764">_____</div> <div data-bbox="1040 764 1122 785">_____</div>	<div data-bbox="1284 680 1365 701">_____</div> <div data-bbox="1284 701 1365 722">_____</div> <div data-bbox="1284 722 1365 743">_____</div> <div data-bbox="1284 743 1365 764">_____</div> <div data-bbox="1284 764 1365 785">_____</div>
OUTBOUND HUB 1	OUTBOUND LATA 1	<div data-bbox="1040 779 1122 800">_____</div> <div data-bbox="1040 800 1122 821">_____</div> <div data-bbox="1040 821 1122 842">_____</div> <div data-bbox="1040 842 1122 863">_____</div> <div data-bbox="1040 863 1122 884">_____</div>	<div data-bbox="1284 779 1365 800">_____</div> <div data-bbox="1284 800 1365 821">_____</div> <div data-bbox="1284 821 1365 842">_____</div> <div data-bbox="1284 842 1365 863">_____</div> <div data-bbox="1284 863 1365 884">_____</div>
<div data-bbox="342 1052 391 1083">216</div> <div data-bbox="505 917 586 1142"> <div data-bbox="570 917 586 938">_____</div> <div data-bbox="570 938 586 959">_____</div> <div data-bbox="570 959 586 980">_____</div> <div data-bbox="570 980 586 1001">_____</div> <div data-bbox="570 1001 586 1022">_____</div> <div data-bbox="570 1022 586 1043">_____</div> </div>	<div data-bbox="695 980 727 1001">220</div> <div data-bbox="764 917 846 1142"> <div data-bbox="764 917 781 938">_____</div> <div data-bbox="764 938 781 959">_____</div> <div data-bbox="764 959 781 980">_____</div> <div data-bbox="764 980 781 1001">_____</div> <div data-bbox="764 1001 781 1022">_____</div> <div data-bbox="764 1022 781 1043">_____</div> </div>	<div data-bbox="1040 848 1122 869">_____</div> <div data-bbox="1040 869 1122 890">_____</div> <div data-bbox="1040 890 1122 911">_____</div> <div data-bbox="1040 911 1122 932">_____</div> <div data-bbox="1040 932 1122 953">_____</div>	<div data-bbox="1284 848 1365 869">_____</div> <div data-bbox="1284 869 1365 890">_____</div> <div data-bbox="1284 890 1365 911">_____</div> <div data-bbox="1284 911 1365 932">_____</div> <div data-bbox="1284 932 1365 953">_____</div>
OUTBOUND HUB # N (6)	OUTBOUND LATA # N (100)	<div data-bbox="1040 1083 1122 1146">LATA CODE # N (100)</div>	<div data-bbox="1284 1083 1365 1146">ROUTING CODE # N (999)</div>

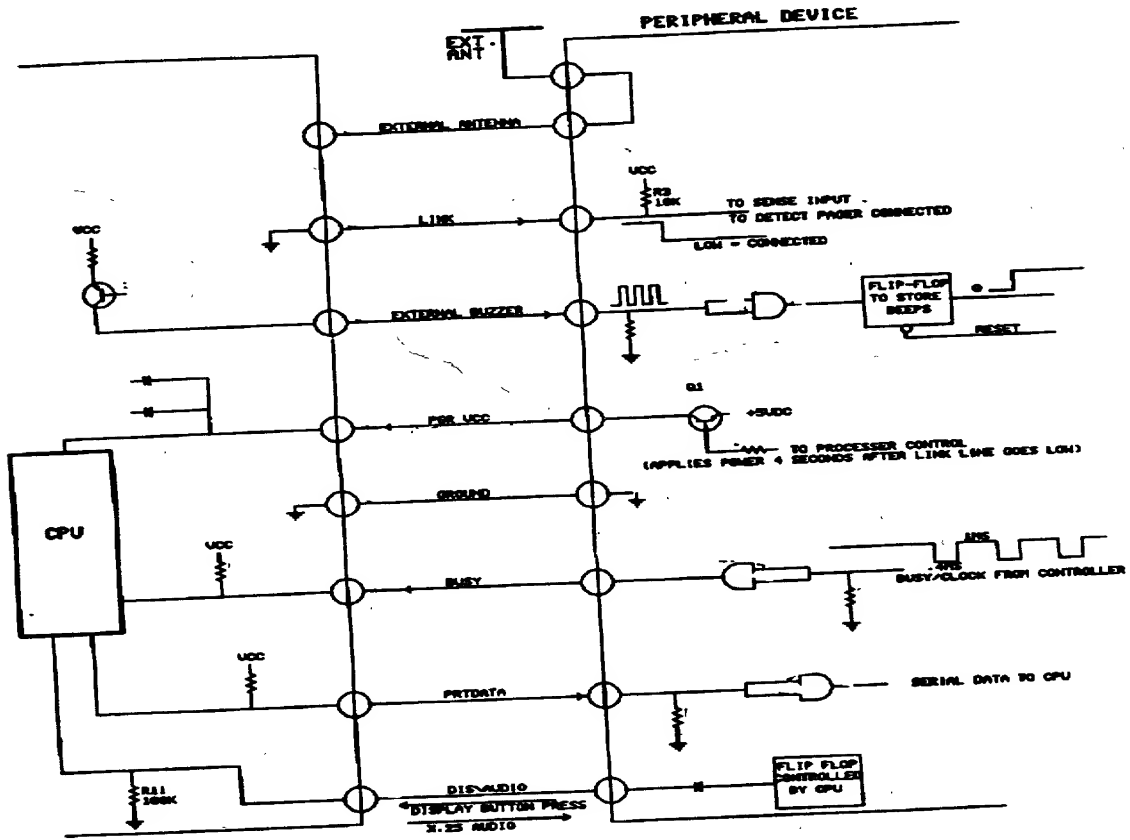
**THE FIVE LAYER MODIFIED X.25 PACKET**

[illegible]

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Fig. 7

(PRIOR ART)



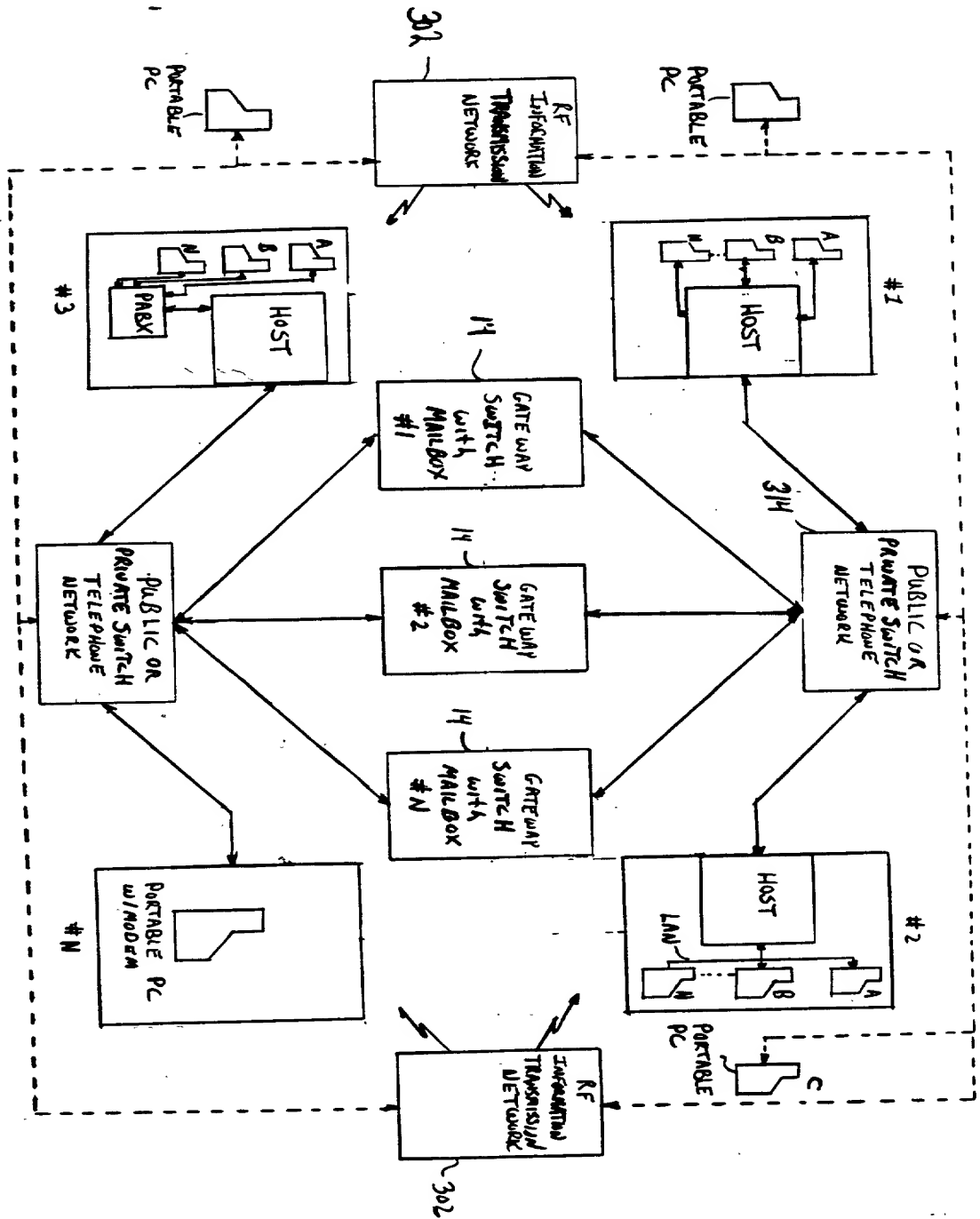
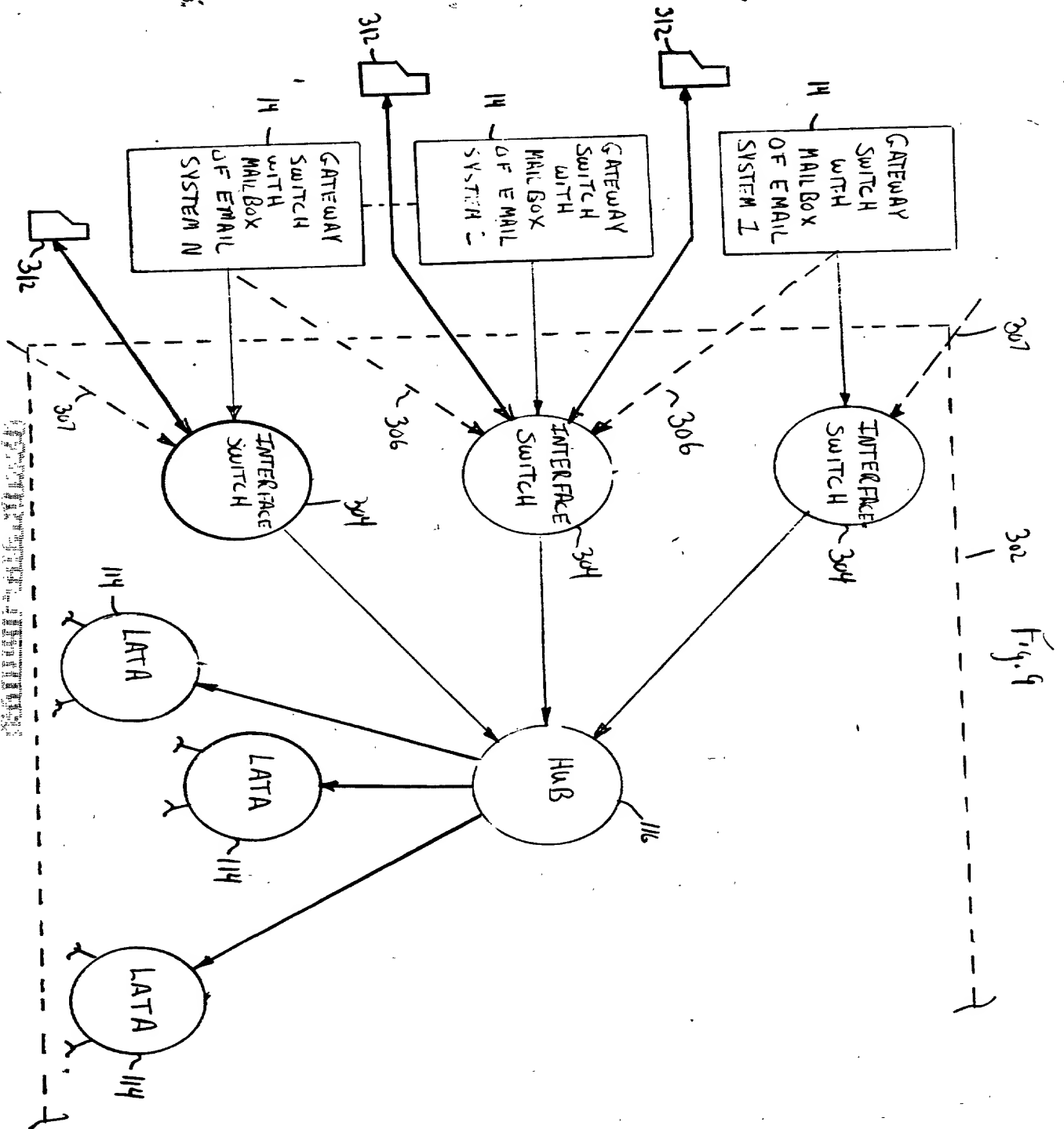
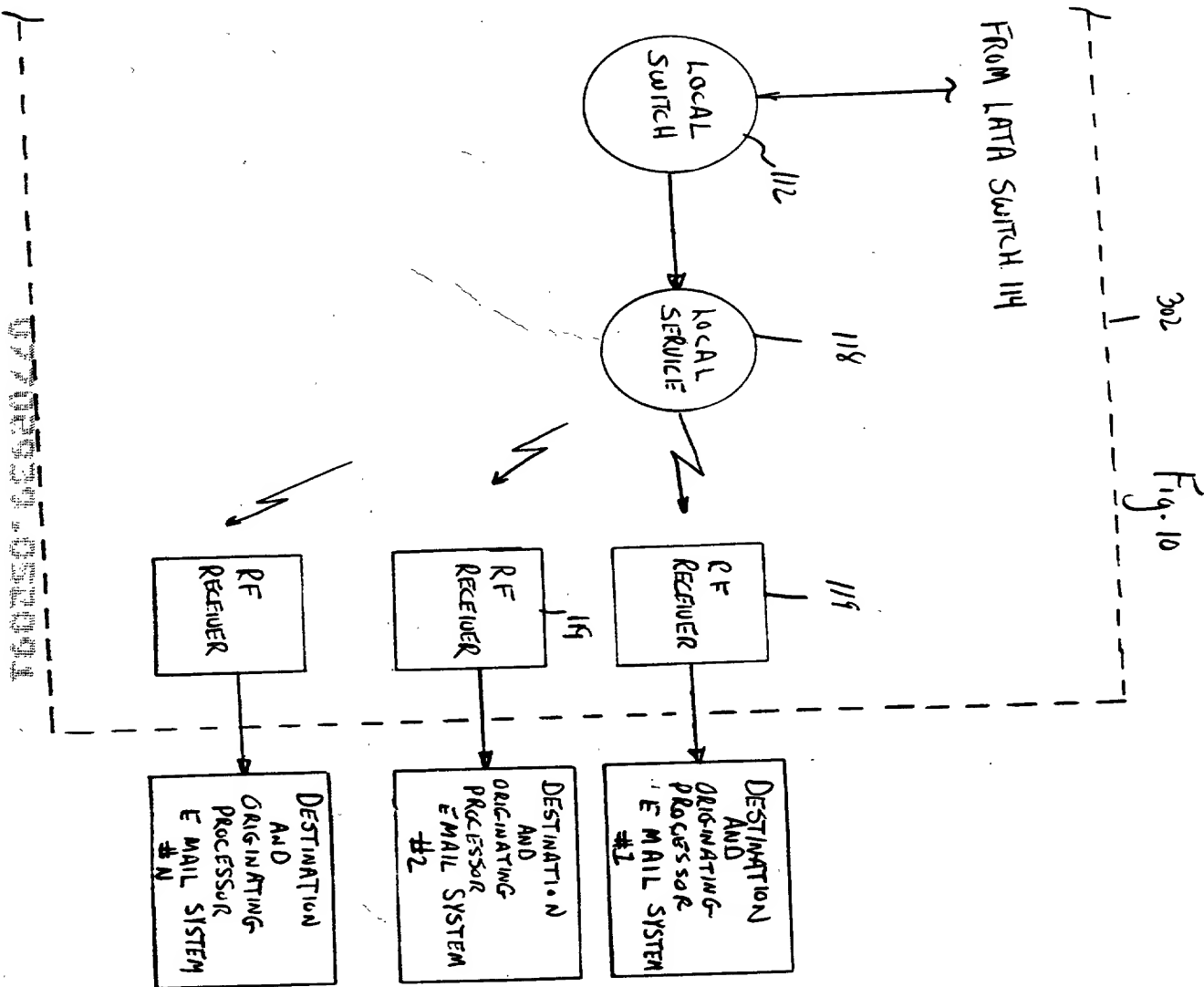


Fig. 8



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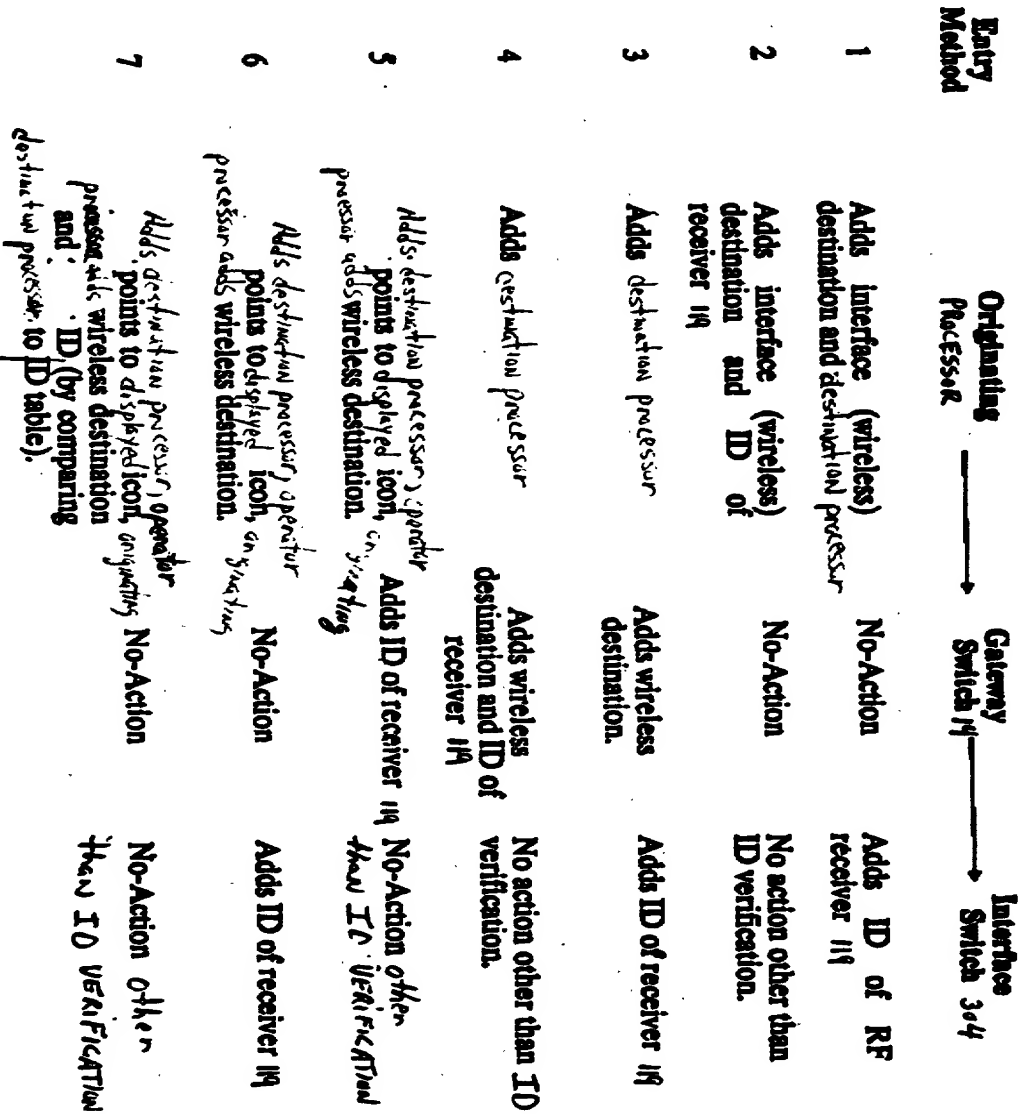




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Fig. 11

ELECTRONIC MAIL MESSAGE ENTRY METHODS



OF RECEIVER 111  
TO DESTINATION

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